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<120> METHODS AND COMPOUNDS FOR MODULATING NUCLEAR RECEPTOR ACTIVITY

<130> 9811-013-999

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<151> 1999-03-30

<150> US 60/079,956

<151> 1998-03-30

<150> US 60/113,146

<151> 1998-12-16

<150> US 60/113,014

<151> 1998-12-16

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<170> PatentIn version 3.1

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<212> PRT

<213> Homo sapiens

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<223> Xaa is any amino acid

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Leu Xaa Xaa Leu Leu  
1 5

<210> 2

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<223> Xaa is any amino acid

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Leu Xaa Xaa Met Leu  
1 5

<210> 3

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Leu Leu Gln Met Leu  
1 5

<210> 4

<211> 13

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Lys His Lys Ile Leu His Arg Leu Leu Gln Asp Ser Ser  
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<210> 5

<211> 33

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<213> Homo sapiens

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Thr Pro Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met  
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Phe Cys Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys  
20 25 30

Cys

<210> 6

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<213> Homo sapiens

<400> 6

Leu Phe Pro Pro Leu Phe Leu Glu Val Phe Glu Asp  
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<210> 7

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<212> PRT

<213> Homo sapiens

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Thr Ala Pro Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met

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5

10

15

Phe Ser Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Cys Cys  
20 25 30

Cys

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Leu Phe Pro Pro Leu Phe Leu Glu Val Phe Glu Asp  
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Thr Lys Cys Ile Ile Lys Ile Val Glu Phe Ala Lys Arg Leu Pro Gly  
1 5 10 15

Phe Thr Gly Leu Ser Ile Ala Asp Gln Ile Thr Leu Leu Lys Ala Ala  
20 25 30

Cys

<210> 10

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Pro Met Pro Pro Leu Ile Arg Glu Met Leu Glu Asn  
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Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys Arg Ile Pro His  
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Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu Leu Arg Ala Gly  
20 25 30

Trp

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Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala  
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Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys Asn Ile Pro Gly  
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Phe Ile Asn Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly  
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Val

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Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp  
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Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly  
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Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser  
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Ala

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Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn  
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Asp Arg Glu Leu Val His Met Ile Asn Trp Ala Lys Arg Val Pro Gly  
1 5 10 15

Phe Val Asp Leu Thr Leu His Asp Gln Val His Leu Leu Glu Cys Ala  
20 25 30

Trp

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Pro Leu Tyr Asp Leu Leu Leu Glu Met Leu Asp Ala  
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Gly Arg Gln Val Ile Ala Ala Val Lys Trp Ala Lys Ala Ile Pro Gly  
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Phe Arg Asn Leu His Leu Asp Asp Gln Met Thr Leu Leu Gln Tyr Ser  
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Trp

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Glu Phe Pro Glu Met Leu Ala Glu Ile Ile Thr Asn  
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Glu Arg Gln Leu Leu Ser Val Val Lys Trp Ser Lys Ser Leu Pro Gly  
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Phe Arg Asn Leu His Ile Asp Asp Gln Ile Thr Leu Ile Gln Tyr Ser  
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Trp

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Glu Phe Pro Glu Met Met Ser Glu Val Ile Ala Ala  
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Gly Lys Gln Met Ile Gln Val Val Lys Trp Ala Lys Val Leu Pro Gly  
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Phe Lys Asn Leu Pro Leu Glu Asp Gln Ile Thr Leu Ile Gln Tyr Ser  
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Trp

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Glu Phe Pro Ala Met Leu Val Glu Ile Ile Ser Asp  
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Glu Arg Gln Leu Val His Val Val Lys Trp Ala Lys Ala Leu Pro Gly  
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Phe Arg Asn Leu His Val Asp Asp Gln Met Ala Val Ile Gln Tyr Ser  
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Trp

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Asp Phe Pro Glu Met Met Ala Glu Ile Ile Ser Val  
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Ser Leu Ala Leu Ser Leu Thr Ala Asp Gln Met Val Ser Ala Leu Leu  
1 5 10 15

Asp Ala Glu Pro Pro Ile Leu Tyr Ser Glu Tyr Asp Pro Thr Arg Pro  
20 25 30

Phe Ser Glu Ala Ser Met Met Gly Leu Leu Thr Asn Leu Ala Asp Arg  
35 40 45

Glu Leu Val His Met Ile Asn Trp Ala Lys Arg Val Pro Gly Phe Val  
50 55 60

Asp Leu Thr Leu His Asp Gln Val His Leu Leu Glu Cys Ala Trp Leu  
65 70 75 80

Glu Ile Leu Met Ile Gly Leu Val Trp Arg Ser Met Glu His Pro Gly  
85 90 95

Lys Leu Leu Phe Ala Pro Asn Leu Leu Leu Asp Arg Asn Gln Gly Lys  
100 105 110

Cys Val Glu Gly Met Val Glu Ile Phe Asp Met Leu Leu Ala Thr Ser  
115 120 125

Ser Arg Phe Arg Met Met Asn Leu Gln Gly Glu Phe Val Cys Leu Lys  
130 135 140

Ser Ile Ile Leu Leu Asn Ser Gly Val Tyr Thr Phe Leu Ser Ser Thr  
145 150 155 160

Leu Lys Ser Leu Glu Glu Lys Asp His Ile His Arg Val Leu Asp Lys  
165 170 175

Ile Thr Asp Thr Leu Ile His Leu Met Ala Lys Ala Gly Leu Thr Leu  
180 185 190

Gln Gln Gln His Gln Arg Leu Ala Gln Leu Leu Leu Ile Leu Ser His  
195 200 205

Ile Arg His Met Ser Asn Lys Gly Met Glu His Leu Tyr Ser Met Lys  
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Cys Lys Asn Val Val Pro Leu Tyr Asp Leu Leu Leu Glu Met Leu Asp  
225 230 235 240

Ala His Arg Leu

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<223> Xaa is any amino acid

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Ser Leu Ala Leu Ser Leu Thr Ala Asp Gln Met Val Ser Ala Leu Leu  
1 5 10 15

Asp Ala Glu Pro Pro Ile Leu Tyr Ser Glu Tyr Asp Pro Thr Arg Pro  
20 25 30

Phe Ser Glu Ala Ser Met Met Gly Leu Leu Thr Asn Leu Ala Asp Arg  
35 40 45

Glu Leu Val His Met Ile Asn Trp Ala Lys Arg Val Pro Gly Phe Val  
50 55 60

Asp Leu Thr Leu His Asp Gln Val His Leu Leu Glu Cys Ala Trp Leu  
65 70 75 80

Glu Ile Leu Met Ile Gly Leu Val Trp Arg Ser Met Glu His Pro Gly  
85 90 95

Lys Leu Leu Phe Ala Pro Asn Leu Leu Leu Asp Arg Asn Gln Gly Lys  
100 105 110

Cys Val Glu Gly Met Val Glu Ile Phe Asp Met Leu Leu Ala Thr Ser  
115 120 125

Ser Arg Phe Arg Met Met Asn Leu Gln Gly Glu Glu Phe Val Cys Leu  
130 135 140

Lys Ser Ile Ile Leu Leu Asn Ser Gly Val Tyr Thr Phe Xaa Xaa Xaa  
145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Glu Glu Lys Asp His Ile His Arg Val Leu  
165 170 175

Asp Lys Ile Thr Asp Thr Leu Ile His Leu Met Ala Lys Ala Gly Leu  
180 185 190

Thr Leu Gln Gln Gln His Gln Arg Leu Ala Gln Leu Leu Ile Leu  
195 200 205

Ser His Ile Arg His Met Ser Asn Lys Gly Met Glu His Leu Tyr Ser  
210 215 220

Met Lys Cys Lys Asn Val Val Pro Leu Tyr Asp Leu Leu Leu Glu Met  
225 230 235 240

Leu Asp Ala His Arg Leu  
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His Lys Ile Leu His Arg Leu Leu Gln Asp Ser  
1 5 10

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<400> 30

Lys His Lys Ile Leu His Arg Leu Leu Gln Asp  
1 5 10

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Leu Ala Leu Ser Leu Thr Ala Asp Gln Met Val Ser Ala Leu Leu Asp  
1 5 10 15

Ala Glu Pro Pro Ile Leu Tyr Ser Glu Tyr Asp Pro Thr Arg Pro Phe  
20 25 30

Ser Glu Ala Ser Met Met Gly Leu Leu Thr Asn Leu Ala Asp Arg Glu  
35 40 45

Leu Val His Met Ile Asn Trp Ala Lys Arg Val Pro Gly Phe Val Asp  
50 55 60

Leu Thr Leu His Asp Gln Val His Leu Glu Cys Ala Trp Leu Glu Ile  
65 70 75 80

Leu Met Ile Gly Leu Val Trp Arg Ser Met Glu His Pro Gly Lys Leu  
85 90 95

Leu Phe Ala Pro Asn Leu Leu Asp Arg Asn Gln Gly Lys Cys Val  
100 105 110

Glu Gly Met Val Glu Ile Phe Asp Met Leu Leu Ala Thr Ser Ser Arg  
115 120 125

Phe Arg Met Met Asn Leu Gln Gly Glu Glu Phe Val Cys Leu Lys Ser  
130 135 140

Ile Ile Leu Leu Asn Ser Gly Val Tyr Thr Phe Leu Ser Ser Thr Leu  
145 150 155 160

Lys Ser Leu Glu Glu Lys Asp His Ile His Arg Val Leu Asp Lys Ile  
165 170 175

Thr Asp Thr Leu Ile His Leu Met Ala Lys Ala Gly Leu Thr Leu Gln  
180 185 190

Gln Gln His Gln Arg Leu Ala Gln Leu Leu Leu Ile Leu Ser His Ile  
195 200 205

Arg His Met Ser Asn Lys Gly Met Glu His Leu Tyr Ser Met Lys Cys  
210 215 220

Lys Asn Val Val Pro Leu Tyr Asp Leu Leu Leu Glu Met Leu Asp Ala  
225 230 235 240

His Arg Leu His Ala  
245